Seinfeld and Pandis developed a chart (see below) to calculate the settling velocity for all particles (mostly larger particles though). The relationship is plotted in Re vs. CoRe2, where CoRe2 is developed from

$$V_{rs} = \left(\frac{4g\rho_{r}C_{s}D_{r}}{3C_{o}\rho}\right)^{cs} \quad \text{and} \quad Re = \frac{\rho UD_{r}}{\mu}$$

- a) (10 points) Derive the relationship
- $C_{\mu}Re^{2} = \frac{4\rho\rho_{\mu}gD_{\mu}C_{\mu}}{3\mu^{2}}$ using the above two equations.
- b) (10 points) Determine the settling velocity in the air for a 200 µm diameter particle with density of 3.5 g/cm' using the chart below. Take Ce = 1.0 for such a large particle. pur = 0.00130 g/cm' and pur = 0.000172 g/cm/s. (Use another sheet of paper if you need it.)

$$C_D \operatorname{Re}^2 = \frac{4\rho \rho_B g D_P^2 C_e}{3\mu^2}$$
 and $\operatorname{Re} = \frac{\rho U D_P}{\mu}$

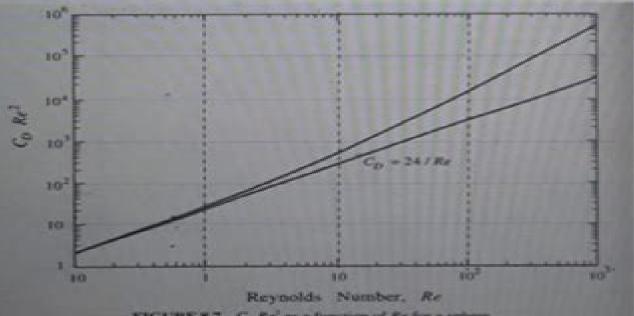


FIGURE 8.7 CaRe as a function of Re for a sphere.

Seinfeld Pandis Solution

Sabine Zange



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